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U.S. Patent Application Serial No. 08/202,505 filed February 28, 1994 (abandoned); and the priority of U.S. Patent Application Serial No. 09/448,857 filed November 23, 1999, which is a continuation of U.S. Patent Application Serial No. 08/971,521 filed November 17, 1997 (issued as U.S. Patent No. 6,020,586 on February 1, 2000) which is a continuation of U.S. Patent Application Serial No. 08/689,459 filed August 9, 1996 (issued as U.S. Patent No. 5,689,111 on November 18, 1997), and which claims the priority of U.S. Provisional Application Serial No. 60/002,118 filed August 10, 1995, and U.S. Provisional Application Serial No. 60/002,122 filed August 10, 1995. The priority of all of the prior applications is claimed, and the disclosures of those applications are fully incorporated herein by reference.--

In The Claims

Please cancel Claims 1-32 and add the following new claims:

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- 33. An apparatus for analyzing chemical species comprising:
- (a) at least one vacuum pumping stage;
  - (b) an ion source for producing ions from a sample substance;
  - (c) at least one multipole ion guide located in at least one of said vacuum pumping stages;
  - (d) a mass analyzer
  - (e) means for delivering ions from said ion source into said at least one multipole ion guide;